

LAB Group Work Mass

Question How does the mass of an object compare to the mass of its parts?

Procedure

1. With your group, build something out of your blocks.
2. Use a balance to **measure** the mass of your structure.
Record the mass in the table.

Materials

- large plastic building blocks
- balance

Structure	Mass of structure	Length of structure	Total mass of parts
1			
2			
3			
4			

3. Measure the length of the longest side of your structure. Record this length in the table.
4. Now take your structure apart. Measure the mass of each part. Add the masses of the parts together. Record this total in the table.
5. Do steps 1–4 three more times, making a different structure each time. Use the same blocks each time.

Analysis

1. How did the mass of each structure **compare** to the total mass of its parts?

2. How did the masses of structures 1, 2, 3, and 4 **compare** to their lengths?
